

**PANEL A**

REF	PI	HEI	Title
NE/H022740/1	Thomas	Aberystwyth	HYDROMAL: Hydro-dynamic drivers of malaria transmission hazard in Africa
NE/H02235X/1	Grey	Queen Mary	Manipulating the chemosynthetic and photosynthetic support of river food webs
NE/H02042X/1	Parkes	Cardiff	Hydrogen Generation in the Deep, Hot Biosphere
NE/H021787/1	Ruhl	NOC	Autonomous Ecological Surveying of the Abyss (AESAs): Understanding Mesoscale Spatial Heterogeneity in the Deep Sea
NE/H020802/1	Rees	Sheffield	Linking seeds and seedlings: Models and mechanisms.
NE/H021531/1	Sass	Cardiff	The 'sleeping' biosphere - endospores in deep marine sediments
NE/H021256/1	Sait	Leeds	Resolving the conflict: The ecology and evolution of horizontal versus vertical transmission strategies in a model insect-virus interaction
NE/H022511/1	Trimmer	Queen Mary	Predictable feedbacks between warming, community structure and ecosystem functioning: a combined experimental and theoretical approach

**PANEL B**

REF	PI	HEI	Title
NE/H023690/1	Jones	Aberystwyth	DO ARCTIC PLANT-SOIL COMMUNITIES ACCLIMATE TO LONG TERM ELEVATED CO2 EXPOSURE?
NE/H023852/1	Ridgwell	Bristol	Evolution of Carbon Cycle Dynamics (eCCD)
NE/H022090/1	Bowers	Bangor	Measurement of the abundance and optical significance of sub-micron sized particles in the ocean
NE/H022333/1	Hartley	Exeter	THERMAL ACCLIMATION OF SOIL MICROBIAL RESPIRATION: CONSEQUENCES FOR GLOBAL WARMING-INDUCED CARBON LOSSES?
NE/H022732/1	Minshull	Southampton	Arctic hydrate dissociation as a consequence of climate change: determining the vulnerable methane reservoir and gas escape mechanisms
NE/H020772/1	Powell	Leicester	The development of structure in coarse-grained river bed sediments: the key to predicting sediment flux

**PANEL C**

REF	PI	HEI	Title
NE/H02087X/1	Williams R	Liverpool	Climate variability in the North Atlantic Ocean: wind-induced changes in heat content, sea level and overturning.
NE/H020454/1	Marshall	Oxford	A new approach to parameterizing ocean eddies: energetics, conservation and flow stability
NE/H021841/1	Washington	Oxford	DO4models- Dust Observations for models: Linking a new dust source-area data set to improved physically-based dust emission schemes in climate models
NE/H01988X/1	Johnson	Oxford	Ocean and sea-ice dynamics in Nares Strait and the Canadian Arctic Archipelago
NE/H02333X/1	Turner	British Antarctic Survey	The role of atmosphere-ocean-ice interactions in ice loss from Pine Island and Thwaites Glaciers, West Antarctica
NE/H020241/1	Arnold	Leeds	Export of Ozone and Precursors from Europe and Impacts on Air Quality, Climate and Ecosystems
NE/H022988/1	Roscoe	British Antarctic Survey	Modelling the effects of realistic polar stratospheric clouds on past climate and future ozone
NE/H023402/1	Bigg	Sheffield	A century of variability in Greenland melting and iceberg calving
NE/H02168X/1	Brooks	Leeds	ASCOS Analysis - surface-cloud coupling in the arctic boundary layer
NE/H020888/1	Liss	East Anglia	Synthesis and Integration of Global Air-Sea Gas and Particle Fluxes to Improve Models and Assessments of Future Climate and Pollution
NE/H024921/1	Fullekrug	Bath	Relativistic Electron Beams Above Thunderclouds
NE/H019049/1	Gallagher	Manchester	Characterisation and Modelling of Climatically Relevant Primary Biogenic Ice Nuclei in the BEACHON Southern Rocky Mountain Project
NE/H021108/1	Baeza-Romero	Leeds	Are glyoxal and methylglyoxal critical to the formation of a missing fraction of SOA (Secondary Organic Aerosol)? (Pho-SOA).
NE/H024433/1	Lanchester	Southampton	Filamentary structure in the upper atmosphere

**PANEL D**

REF	PI	HEI	Title
NE/H024301/1	Cooper	Ulster	Late Glacial Sea Level Minima in the Western British Isles
NE/H025006/1	White	Cambridge	Interaction of Tectonics and Magmatism in the Askja spreading segment of Iceland
NE/H023879/1	Wadham	Bristol	Investigating meltwater flow beneath the Greenland Ice Sheet using a multi-tracer approach
NE/H021744/1	De Paola	Durham	Fault lubrication during earthquake propagation in thermally unstable rocks
NE/H02297X/1	Main	Edinburgh	Hazard forecasting in real time: from controlled laboratory tests to volcanoes and earthquakes
NE/H020667/1	Dowdeswell	Cambridge	Airborne geophysical investigations of basal conditions at flow transitions of outlet glaciers on the Greenland Ice Sheet
NE/H023356/1	Richardson	Bangor	ULTRA-HIGH-RESOLUTION PROXY RECORD OF LAST MILLENNIUM NORTH ATLANTIC TEMPERATURE ANOMALIES ('ULTRA')
NE/H022473/1	Rost	Leeds	Origin of ultra-low velocity zones at the core mantle boundary
NE/H020004/1	Lissenberg	Cardiff	The evolution of mid-ocean ridge magma chambers and the growth of slow-spreading oceanic crust
NE/H021043/1	Biggin	Liverpool	Very long timescale variations in the palaeomagnetic record and the evolution of the Earth's deep interior
NE/H023933/1	Elliott	Bristol	Tracing pollution of the mantle with isotopically anomalous Mo and U
NE/H021868/1	Grocke	Durham	Establishing causes of sea-level change and oceanic anoxia in the Late Cretaceous: regional versus global patterns
NE/H019928/1	Wadge	Reading	Short-period deformation at a lava dome volcano
NE/H021620/1	Allen	Durham	Orogenic plateau magmatism
NE/H02462X/1	Alfe	UCL	Transport properties in the Earth's core

<b>PANEL E</b>	<b>PI</b>	<b>HEI</b>	<b>Title</b>
<b>REF</b>			
<b>NE/H02249X/1</b>	<b>Tregenza</b>	<b>Exeter</b>	Selection on behaviour and life histories across generations in a natural population
<b>NE/H019804/1</b>	<b>Blaxter</b>	<b>Edinburgh</b>	Development of optimal wet-lab and bioinformatics protocols for implementation of RAD sequencing for NERC science
<b>NE/H024352/1</b>	<b>Saccheri</b>	<b>Liverpool</b>	Effect of rapid environmental change on genetic diversity through space and time: selective sweeps and industrial melanism in peppered moths
<b>NE/H022937/1</b>	<b>Soligo</b>	<b>UCL</b>	Morphological clocks: Quantifying module- and lineage-specific variation in rates of morphological evolution in the primate skull
<b>NE/H020322/1</b>	<b>Thompson</b>	<b>Manchester</b>	Genetic architecture and constraint in social evolution
<b>NE/H020616/1</b>	<b>Bythell</b>	<b>Newcastle</b>	Re-evaluation of the emergence of reef coral diseases based on the importance of ciliate infections
<b>NE/H024093/1</b>	<b>Hatton</b>	<b>SAMS</b>	Addressing the ocean methane paradox: the role of microenvironments in oceanic methane production
<b>NE/H022716/1</b>	<b>Osborne</b>	<b>Sheffield</b>	Origins of Agriculture: an Ecological Perspective on Crop Domestication
<b>NE/H023704/1</b>	<b>Carvalho</b>	<b>Bangor</b>	Impacts of Southern Ocean warming on marine connectivity: Integrating oceanographic modelling with molecular ecology and developmental biology
<b>NE/H019731/1</b>	<b>Kilner</b>	<b>Cambridge</b>	Individual variation in the costs of molecular parental investment: cooperation, conflict and mutualism in family life
<b>NE/H021183/1</b>	<b>Mable</b>	<b>Glasgow</b>	Assessing the impact of plant mating system and ploidy on adaptation to parasitism in changing environments
<b>NE/H021914/1</b>	<b>Hodson</b>	<b>Reading</b>	Earthworm secreted calcite granules - constructing a new terrestrial palaeo-environment thermometer and quantifying carbon sequestration potential